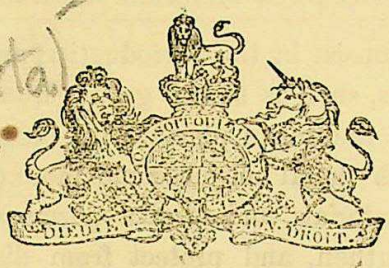
425-DIG.130

Blending metal with stone, gravel &c

Woven metal for blocks slabs &c



Drawing out

A.D. 1873, 19*th* MARCH. N° 1004.

Materials for Building Purposes, &c.

LETTERS PATENT to Thomas Butler Coddington, of Kensington Park Gardens, in the County of Middlesex, Gentleman, for the Invention of "IMPROVEMENTS IN THE MANUFACTURE OF MATERIALS SUCH AS BLOCKS, SLABS, PILLARS, TUBES, AND SUCH LIKE, SUITABLE FOR BUILDING AND FOR OTHER PURPOSES."—A communication from abroad by Gasherie De Witt, of Belleville, State of New Jersey, and James Fairman, of New York, State of New York, both in the United States of America.

Sealed the 15th August 1873, and dated the 19th March 1873.

PROVISIONAL SPECIFICATION left by the said Thomas Butler Coddington at the Office of the Commissioners of Patents, with his Petition, on the 19th March 1873.

I, THOMAS BUTLER CODDINGTON, of Kensington Park Gardens, in the County of Middlesex, Gentleman, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN THE MANUFACTURE OF MATERIALS, SUCH AS BLOCKS, SLABS, PILLARS, TUBES, AND SUCH LIKE, SUITABLE FOR BUILDING AND FOR OTHER PURPOSES," a communication to me from abroad by Gasherie De Witt, of Belleville, State of New Jersey, and James Fairman, of of New York, State of New York, both in the United States of America, to be as follows:—

Coddington's Improvements in Materials for Building Purposes, &c.

The improvements consist in the introduction and blending of metal into and with materials, such as stone, gravel, iron slack, or other hard refuse materials mixed and made plastic with cement, under pressure or otherwise, so that such metal may become more or less introduced or woven into the said materials, and form a permanent casing, serving to shape, preserve, strengthen, and protect from disintegration the said materials, and the using such metal woven material for blocks, slabs, pillars, tubes, pipes, pavement, and such like, for building or other purposes.

The improvements may be performed by forming a case or basket of open metal work, as shown in Figure 1 of the accompanying Drawings, in which A is the frame and B the open metal work thereof. The outer edge or frame A may be made to represent a moulding or any other required and convenient design, and the open metal work panels B may be of any required convenient design or shape, the basket case thus formed is then placed in a mould of the same size and shape or nearly so, fitting it; the faces of the mould may bear any convenient design; a mixture of the most approved cements mixed with broken stone, brick, gravel, iron slack, cinder (or any convenient refuse hard material may be used) is then deposited into the basket case, held in the mould, and subjected to pressure sufficient to secure close contact and left until perfect cohesion has taken place, the basket case and its contents are then removed from the mould and are ready for use.

Figure 2 is a sectional elevation shewing the basket case filled, in which C is cement and gravel, D broken stone, E the interwoven metal.

Various applications of the Invention are further illustrated in Figures 3, 4, and 5, which show elevation and section of slabs, formed for Mansard roofs, also in Figures 6 and 7, which show elevation and section of railway sleeper; C, being the cement and gravel; D, the broken stone; E, the interwoven metal; I, I, metal or wood plates; H, H, bolts; and in Figure 8, which shows a column or post in which G is an iron tube or core; C, the cement, stone, and gravel; E, the interwoven metal.

Figure 9 shows a water pipe or tube, C being the cemented material, E the interwoven metal.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Thomas Butler Coddington in the Great Seal Patent Office on the 16th August 1873.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, THOMAS BUTLER CODDINGTON, of Kensington Park Gardens, in the County of Middlesex, Gentleman, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Nineteenth day of March, in the year of our Lord One thousand eight hundred and seventy-three, in the thirty-sixth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Thomas Butler Coddington, Her special licence that I, the said Thomas Butler Coddington, my executors, administrators, and assigns, or such others as I, the said Thomas Butler Coddington, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "IMPROVEMENTS IN THE MANUFACTURE OF MATERIALS, SUCH AS BLOCKS, SLABS, PILLARS, TUBES, AND SUCH LIKE, SUITABLE FOR BUILDING AND FOR OTHER PURPOSES," a communication to me from abroad by Gasherie De Witt, of Belleville, State of New Jersey, and James Fairman, of New York, State of New York, both in the United States of America, upon the condition (amongst others) that I, the said Thomas Butler Coddington, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Thomas Butler Coddington, do hereby declare the nature of my said Invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The improvements consist in the introduction and blending of metal

into and with materials, such as stone, gravel, iron slack, or other hard refuse materials mixed and made plastic with cement, under pressure or otherwise, so that such metal may become more or less introduced or woven into the said materials, and form a permanent casing, serving to shape, preserve, strengthen, and protect from disintegration the said materials, and the using such metal woven material for blocks, for railway sleepers, slabs, pillars, tubes, pipes, pavement, and such like, for building or other purposes.

The improvements may be performed by forming a case or basket of open metal work, as shown in Figure 1 of the accompanying Drawing, in which A is the frame and B the open metal work thereof. The outer edge or frame A may be made to represent a moulding or any other required and convenient design, and the open metal work panels B may be of any required convenient design or shape, the basket case thus formed is then placed in a mould of the same size and shape, or nearly so, fitting it; the faces of the mould may bear any convenient design; a mixture of the most approved cements, mixed with broken stone, brick, gravel, iron slack, cinder (or any convenient refuse hard material may be used), is then deposited into the basket case, held in the mould, and subjected to pressure sufficient to secure close contact, and left until perfect cohesion has taken place, the basket case and its contents are then removed from the mould and are ready for use.

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Various applications of the Invention are further illustrated in Figure 3, 4, and 5, which shew elevation and section of slabs formed for Mansard roofs, also in Figures 6 and 7 which show elevations and section of railway sleeper; C, being the cementand gravel; D, the broken stone; E, the interwoven metal; I, I, metal, or wood plates; H, H, bolts.

In making railway sleepers we prefer to use in the skeleton frame two plates separated and held apart by bolts, so that the pressure is divided and conveyed to the centre of the mass.

Figure 8 shows a column or post, in which G is an iron tube or core; C, the cement, stone, and gravel; E, the interwoven metal.

Figure 9 shows a water pipe or tube, C being the cemented material, E the interwoven metal.

In witness whereof, I, the said Thomas Butler Coddington, have hereunto set my hand and seal, this Sixteenth day of June, in the year of our Lord One thousand eight hundred and seventy-three.

T. B. CODDINGTON. (L.S.)

LONDON:
Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1873.